

LAND RECLAMATION COMMISSION

STATE OF MISSOURI

P.O. BOX 176

JEFFERSON CITY, MISSOURI 65102

573-751-4041

Permit To Engage in Surface Mining

LAND RECLAMATION COMMISSION

ISSUES TO

CARTHAGE CRUSHED LIMESTONE

Pursuant to "The Land Reclamation Act," RSMo, 2001, and on conformity with the statements

In the application, a permit is hereby granted to engage in surface mining of
limestone in the state of Missouri. The extent of the

Proposed mining operation(s) will be on 51 acres, more or less.

The locations of the operation(s) under this permit is/are as follows: **Renewal**

County	Section	Township	Range	Acres Renewed	Acres New	Total Acres	Site/Stream Name	Site Number
Jasper	29	29N	31W	51	0	51	Site #1	0678

This permit may be suspended or revoked upon violation of any or all of the conditions set forth in "The Land Reclamation Act," RSMo, 2001, or in such rules and regulations as are promulgated pursuant thereto by the Land Reclamation Commission.

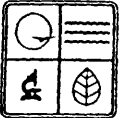
IN WITNESS WHEREOF I have hereunto set my hand this 20th day of April 2004


DIRECTOR OF STAFF
Land Reclamation Commission

Permit No. 0715
Effective Date 04/20/2004
Expiration Date 04/18/2005

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MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION

PERMIT RENEWAL FOR INDUSTRIAL MINERAL MINES

MISSOURI LAND RECLAMATION COMMISSION
P.O. BOX 176
JEFFERSON CITY, MO 65102-0176

NAME OF CORPORATION, COMPANY, PARTNERSHIP OR INDIVIDUAL CARTHAGE CRUSHED LIME STONE		DATE MARCH 23, 2004	
ADDRESS 1331 CIVIL WAR ROAD / P.O. BOX 1086		CITY CARTHAGE MO	STATE MO.
CONTACT PERSON TEDDY L. STARK		ZIP CODE 64836	TELEPHONE NUMBER 417-358-7100

FEES: COMPLETE SECTION I OR SECTION II

SECTION I. Fees: Open pit operators and those mining more than 5,000 tons of sand and/or gravel:

1. To compute the site fee complete the information below:

SITE NAME OR NUMBER (add a separate sheet for additional sites)	Mark each month that the site will be operated during the permit year	For sites operated less than six months per permit year pay \$150 For sites operated six months or more per permit year pay \$300
1. NE-29 0715	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$ 300.00
2.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
3.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
4.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
5.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
6.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
7.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
8.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
9.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
10.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
TOTAL SITE FEE		\$ 300.00

2. Acreage Fee \$5 X **51** number of acres bonded \$ **255.00**

3. Annual Permit Fee \$ 500

4. Total Fee (Add totals from 1, 2 and 3) \$ **1055.00**

NOTE: If Total Fee exceeds \$2,500.00 then pay only \$ 2,500

SECTION II. FEES: Sand or gravel operators mining less than 5,000 tons per year:

1. Annual Permit Fee \$ 300

SIGNATURE OF APPLICANT <i>Teddy L. Stark</i>	TITLE ENVIR. SAFETY	DATE 3/31/04
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Appeared before me this **31** day of **March**, 20**04**,
to me personally known, who executed the above as their free acts and deeds.

NOTARY PUBLIC EMBOSSER SEAL	STATE OF Missouri	COUNTY (OR CITY OF ST. LOUIS) Jasper
	SUBSCRIBED AND SWORN BEFORE ME, THIS 31 DAY OF March , YEAR 2004	
	NOTARY PUBLIC SIGNATURE <i>Clydene Triplett</i>	MY COMMISSION EXPIRES 5-28-05
	NOTARY PUBLIC NAME (TYPED OR PRINTED) Clydene Triplett	

USE RUBBER STAMP IN CLEAR AREA BELOW.

CLYDENE TRIPLETT
Notary Public - Notary Seal
STATE OF MISSOURI
Jasper County

FOR DEPARTMENT USE ONLY: APPROVED BY <i>Michael J. Hunk</i>	DATE APPROVED 4/13/04	PERMIT NUMBER 0715	My Commission Expires: May 28, 2005
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MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
SITE INFORMATION FORM

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To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER CARTHAGE CRUSHED LIMESTONE NE-29		PERMIT NUMBER 715	MISSOURI LAND RECLAMATION COMMISSION
COMPANY NAME CARTHAGE CRUSHED LIMESTONE			
COUNTY JASPER	1/4 SECTION NORTHEAST 1/4	SECTION 29	
TOWNSHIP 29 NORTH	RANGE 31 WEST	ACRES ORIGINAL 8 - ADDITIONAL 43 LONG-TERM - 51 ACRES	
RIVER OR STREAM NAME (FOR IN-STREAM ACRES) N/A			
MINERAL COMMODITY LIMESTONE		ESTIMATED TONS/YEAR (FOR GRAVEL SITES)	

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) CARMAR GROUP, INC.		
ADDRESS (SAME)		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE): _____		<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT
		DATE OF AGREEMENT

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE)		
ADDRESS		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE): _____		<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT
		DATE OF AGREEMENT

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
MINE PLAN

P.O. BOX 176
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):

- ☐ SHORT TERM, FOR ONE PERMIT YEAR
☐ LONG TERM, FOR PERIOD THROUGH DATE:

COMPANY NAME

CARTHAGE CRUSHED Limestone

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY

THE MINE SITE COVERS (8 + 43) 51 MINEABLE ACRES CENTERED IN A LARGER (185 ACRE) SITE, ALL OF WHICH IS OWNED BY THE MINE OPERATOR. THE SITE TO BE MINED IS MODERATELY LEVEL, WITH VERY LITTLE TOPSOIL. SEVERAL SMALL GROVES OF TREES ARE PRESENT IN THE AREA TO BE MINED.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

6 INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

IN THE FEW ACRES WHERE TOPSOIL IS PRESENT, THE TOPSOIL AND UP TO 12 INCHES (IF AVAILABLE) OF SOIL MANTLE WILL BE REMOVED AND STOCKPILED. THIS REMOVAL WILL ONLY OCCUR AT THE LOCATIONS WHERE SURFACE MINING WILL IMMEDIATELY OCCUR. EQUIPMENT USED WILL BE FRONT-END LOADER AND SCRAPERS.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

TOPSOIL AND SOIL MANTLE WILL BE STOCKPILED AT THE OUTER LIMITS OF THE MINE SITE. STORAGE PILES WILL HAVE A MAXIMUM TWO (2) HORIZONTAL TO ONE (1) VERTICAL AND WILL BE SEEDED AND SITUATED SUCH AS TO MINIMIZE EROSION.

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B. SPOIL

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

ALL OVERBURDEN REMOVED FROM THE MINE WILL BE PLACED IN AREAS OF THE PIT WHICH HAVE PREVIOUSLY BEEN MINED-OUT. EXPOSED SLOPES OF THE OVERBURDEN STORAGE PILES WILL BE GRADED TO A TWO (2) HORIZONTAL TO ONE (1) VERTICAL SLOPE.

C. ACID MATERIALS

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

NONE.

D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

SEE MAPS.

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YES NO

- | | | |
|--------------------------|-------------------------------------|---|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Will any excavation be at or within fifty feet (50') of the right-of-way of any public road? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.) |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Will any excavation start at or within fifty feet (50') of any property line?
(NOTE: If the answer is "yes", a safety barrier may be needed.) |

RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.

A. REVEGETATION (Attach additional sheets, if needed)

REVEGETATION MIX #1

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

PASTURE

SPRING (MARCH 15-MAY 15)

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

ONCE THE MINING OPERATION IS COMPLETE, THE AREA NOT LEFT AS AN OPEN PIT WILL HAVE TOPSOIL AND "B" HORIZON MATERIAL PLACED OVER THE SITE. THESE AREAS WILL BE DISKED, GRADED TO DRAIN AND THEN SEEDED. EQUIPMENT WILL BE OF AGRICULTURAL TYPE. SEEDING WILL BE COMPLETE DURING THE FIRST SPRING FOLLOWING THE COMPLETION OF THE MINING OPERATION.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
SMOOTH BROME RED CLOVER	16 4		

REVEGETATION MIX #2

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

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RECLAMATION COMMISSION

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

B. GRADING

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

THIS SITE CONTAINS A CONSIDERABLE AMOUNT OF OVERBURDEN MATERIAL. IN ADDITION, PRELIMINARY INVESTIGATION INDICATES A SHALE AND LOW-GRADE LIMESTONE INTERSPERSED BETWEEN THE QUALITY LIMESTONE LEDGES WHICH WOULD REQUIRE REMOVAL AND SUBSEQUENT REPLACEMENT. ALL UNCONSOLIDATED HIGH WALLS WILL BE KNOCKED DOWN. BARRIERS SUCH AS BERMS, SHRUBS AND LARGE ROCKS WILL BE PLACED AT THE TOP OF ANY REMAINING HIGH WALLS. PLANT AND STOCKPILE AREAS WILL BE COVERED WITH TOPSOIL AND RE-SEEDDED.

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES**GRADING**

GRADING WILL BE DONE AS THE PIT ADVANCED INTO THE HILLSIDE. SPOIL MATERIAL WILL BE PLACED IN THE MINED-OUT PIT SUCH AS TO ENSURE DRAINAGE. FINAL GRADING WILL BE COMPLETED WITHIN ONE YEAR OF PERMIT EXPIRATION ON MINED-OUT PORTION.

REPLACEMENT OF TOPSOIL

TOPSOIL WILL BE REPLACED TO A UNIFORM DEPTH UP TO 6 INCHES AND DISCED TO REDUCE COMPACTION. TOPSOIL WILL BE REPLACED WITHIN ONE YEAR OF PERMIT EXPIRATION.

REVEGETATION

ALL TOPSOIL AREAS WILL BE SEEDED DURING THE FIRST SPRING FOLLOWING TOPSOIL REPLACEMENT.

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RECLAMATION COMMISSION

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)

6" (TOPSOIL) AND 6" (MANTLE) = 12"

D. USE OF LAND WHEN RECLAIMED

Estimate acreage of each land use below, after reclamation

ESTIMATED ACRES:

Wildlife (forest or other habitat with livestock excluded)

0

Agricultural (pasture, cropland, and horticultural)

0

Development (residential, industrial, and recreational)

51

Water impoundments (for wildlife, agricultural, or development)

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

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SIGNATURE OF APPLICANT <i>A. L. Boyer</i>		TITLE <i>VP-ENGINEERING</i>		DATE <i>4-3-98</i>
NOTARY PUBLIC EMBOSSEER SEAL	STATE Missouri		COUNTY (OR CITY OF ST. LOUISI) Jasper	
	SUBSCRIBED AND SWORN BEFORE ME, THIS 3rd DAY OF April 19 98		USE RUBBER STAMP IN CLEAR AREA BELOW	
	NOTARY PUBLIC SIGNATURE <i>Marla J. Shumny</i>	MY COMMISSION EXPIRES 03-16-2002	MARLA J. SHUMNY Notary Seal - Notary Public Jasper County, State of Missouri My Commission Expires March 16, 2002	
	NOTARY PUBLIC NAME (TYPED OR PRINTED) Marla J. Shumny			
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <i>Brett J...</i>		DATE APPROVED <i>5/17/00</i>		PERMIT NUMBER <i>715</i>



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION

CONSENT TO ENTRY

(for granting right from landowner, where operator has no right to grant such entry)

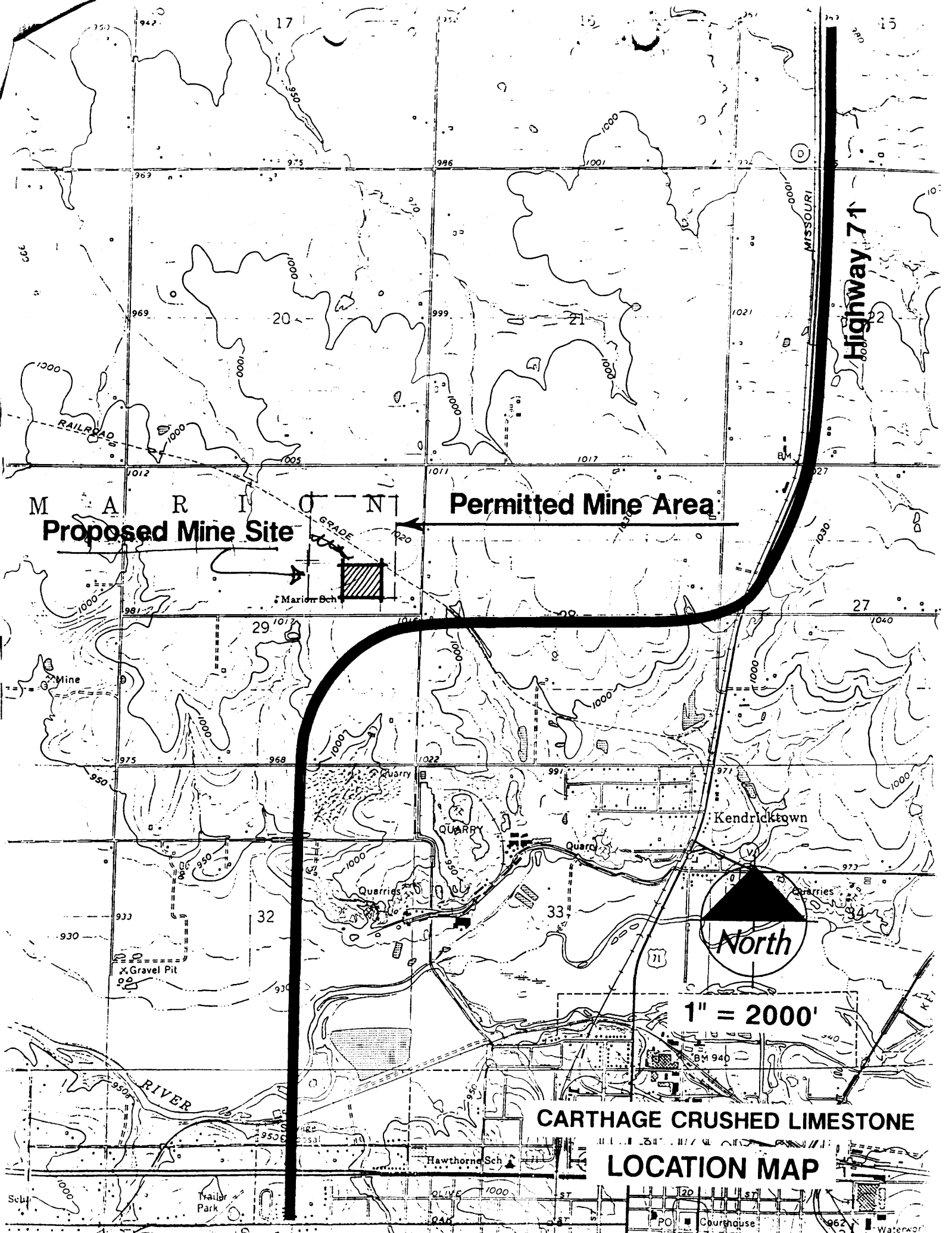
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PO BOX 176
JEFFERSON CITY, MO 65102

COMPANY NAME CARTHAGE CRUSHED LIMESTONE	PERMIT NUMBER(S) MO-649 0244	MISSOURI LAND RECLAMATION COMMISSION SITE NUMBER(S) OPEN PIT MINE
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We, the undersigned, hereby grant to the Director of the State of Missouri Land Reclamation Program and his authorized representatives the right of entry upon our lands or surface mining operations for the purpose of making necessary field inspections covering land reclamation in order to ensure compliance with the Land Reclamation Act, Sections 444.760 to 444.789, RSMo.

NAME OF LANDOWNER CARMAR GROUP, INC.		SIGNATURE			DATE 2 March 98
COUNTY JASPER	1/4 SECTION NE 1/4	SECTION 29	TOWNSHIP 29 N	RANGE 31 W	ACRES 51 ACRES
NAME OF LANDOWNER		SIGNATURE			DATE
COUNTY	1/4 SECTION	SECTION	TOWNSHIP	RANGE	ACRES
NAME OF LANDOWNER		SIGNATURE			DATE
COUNTY	1/4 SECTION	SECTION	TOWNSHIP	RANGE	ACRES
NAME OF LANDOWNER		SIGNATURE			DATE
COUNTY	1/4 SECTION	SECTION	TOWNSHIP	RANGE	ACRES
NAME OF LANDOWNER		SIGNATURE			DATE
COUNTY	1/4 SECTION	SECTION	TOWNSHIP	RANGE	ACRES
NAME OF LANDOWNER		SIGNATURE			DATE
COUNTY	1/4 SECTION	SECTION	TOWNSHIP	RANGE	ACRES
NAME OF LANDOWNER		SIGNATURE			DATE
COUNTY	1/4 SECTION	SECTION	TOWNSHIP	RANGE	ACRES
NAME OF LANDOWNER		SIGNATURE			DATE
COUNTY	1/4 SECTION	SECTION	TOWNSHIP	RANGE	ACRES
NAME OF LANDOWNER		SIGNATURE			DATE
COUNTY	1/4 SECTION	SECTION	TOWNSHIP	RANGE	ACRES
NAME OF LANDOWNER		SIGNATURE			DATE
COUNTY	1/4 SECTION	SECTION	TOWNSHIP	RANGE	ACRES



Permitted Mine Area

Proposed Mine Site

Highway 71

North

1" = 2000'

CARTHAGE CRUSHED LIMESTONE

LOCATION MAP

ROAD

60 (8)

SECTION

DATED

20

21

29

28

2.

AC. 1

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MANAGEMENT COMMISSION

Acreage
Adjusted to
SE (24.15)

77.00 Ac.

DESIGNING SINCE
LIMITS- →

(DEDUCT 24.15 Hours)

SI across
permit
Boundary
(Amended)

25.00 Ac.

ORIGINAL 51 Ac
LH 1775.

OPEN PIT
STRIPPING
MUNITS

1A-2
AC-(C)

THIS AREA
IS STOPPED
FOR STOCK PILES

8 signal
acres

ADD 124152

Carthage Crushed Limestone
Permit #0715
Detail Map
Prepared by: Alex Boyer
Date: 6/16/98
Scale 1"=200'
S29, T29N, R31W Jasper County

MAP

700